

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

- 1 1. (Original) A method for integrating anatomical information from a
2 plurality of sources of information, comprising:
3 receiving two or more three dimensional (3D) anatomical maps sharing a
4 common plane specified by three or more marker points common to the two or more maps;
5 placing one or more marker points on one or more teeth;
6 generating a digital model of the teeth with the marker points; and
7 aligning the two or more 3D anatomical maps and the digital teeth model using
8 the marker points.
- 1 2. (Original) The method of claim 1, wherein the anatomical information is
2 stereo craniofacial data.
- 1 3. (Original) The method of claim 1, wherein one of the anatomical map is
2 an X-ray map.
- 1 4. (Original) The method of claim 3, wherein the X-ray map is generated
2 using correlated points on X-ray pairs and using y-parallax measurements.
- 1 5. (Original) The method of claim 3, wherein the X-ray information is
2 stereo.
- 1 6. (Original) The method of claim 3, further comprising calibrating one or
2 more X-ray sources.
- 1 7. (Original) The method of claim 6, further comprising determining a
2 principal distance from an X-ray source to a film plane.

1 8. (Original) The method of claim 6, further comprising characterizing
2 internal dimensions of the one or more X-ray sources by locating an X-ray film relative to an X-
3 ray source.

1 9. (Original) The method of claim 1, wherein one of the anatomical map is a
2 3D image map.

1 10. (Original) The method of claim 1, wherein the placing of the markers
2 further comprises wearing a dental appliance with one or more marker points.

1 11. (Original) The method of claim 1, wherein each marker is a tie point.

1 12. (Original) The method of claim 1, wherein the aligning uses discrete
2 anatomical landmark information.

1 13. (Original) The method of claim 1, further comprising displaying the
2 aligned maps as an integrated 3D anatomical model.

1 14.-18. (Canceled).

1 19. (Original) A system, comprising:
2 an appliance with one or more teeth markers embedded therein ~~The system of~~
3 ~~claim 15~~, wherein each marker is a tie point;
4 an X-ray camera receiving X-ray information with X-ray marker information;
5 a three-dimensional digital camera receiving three-dimensional anatomical
6 information with anatomical marker information;
7 a dental scanner to generate a three-dimensional teeth model with teeth marker
8 information;
9 a computer to align the X-ray information, 3D anatomical information, and the 3D
10 teeth model using the marker information.

1 20. (Canceled).